roshiba

PC-D15



PE			

Power Supply:

AC 220 V, 50 Hz

AC 240 V, 50 Hz (for U.K. and

Australia)

Power

Consumption: 25 W

Track System:

4-track 2-channel (stereo)

Recording and

Erasing:

AC bias (85 KHz)

AC erasure

Head:

AS head

Motor:

Tape Speed: 4.8 cm/sec.

Fast Forwarding and

Rewinding Time: About 70 seconds (for C-60)

Adopted Semi-

Conductors:

Transistors.........61

Wow and Flutter: 0.04% JIS (WRMS)

SN Ratio:

65 dB (SA tape)

(Line, Peak, WTD DOLBY IN)

TO THE COMPLETE SERVICE SHAPE STATE STATES BASES A

SHOP TO A TELEVISION OF THE COURSE TO

A LONG TO SERVICE

DOLBY NR <IN> mode improves

SN ratio by 5 dB and 10 dB at 1

KHz and over 5 KHz respectively. 0.7% (SA tape, 0 dB at 400 Hz)

Distortion:

Input Jacks:

Output Jacks:

Dimensions:

Frequency

Characteristic: 20 to 18,000 Hz (SA tape)

MIC 0.25 mV (600 ohm to 10

K ohm)

LINE 70 mV (over 50 K ohm)

LINE 0.4 V (50 K ohm)

Headphone 0.2 mW (8 ohm)

 $257(W) \times 104(H) \times 204(D)$ mm

(Including rubber feet and knobs)

Weight:

Accessories:

Connection cords (PIN-PIN) 2

Specifications are subject to change without notice.

TE, TU, AY

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1. FEATURES

- Two motors and IC logic control.
 Feather-touch operating buttons.
 Direct button change without using the STOP button protects the tape.
- Bar-graph peak meters with LEDs.
 Electronically controlled bar-graph peak meters are more responsive, accurate, and easier to read than mechanical meters.
 - Levels below 0 dB are displayed in green and levels above 0 dB in red.
- Automatic tape selector detects the chrome tape detection hole and automatically switches the mode from NORMAL to CHROME, and vice-versa.
 Pushing the Fe-Cr switch enables automatic FERRO-CHROME and CHROME mode selection.

- Many functions in a compact housing, such as a memory counter, automatic play, unattended recording, and alarm playback.
- An all sendust (AS) head with new sendust laminated core assures low-distortion widerange recording.
- Attractive all-aluminium housing, including the rear panel.
- Direct loading allows easy and secure tape loading and unloading with a good view of the tape.
- Dolby* system.
- Remote control jack.
- * Noise Reduction System is manufactured under license from Dolby Laboratries Inc. "Dolby" and the double-D symbol are trademarks of Dolby Laboratries Inc.

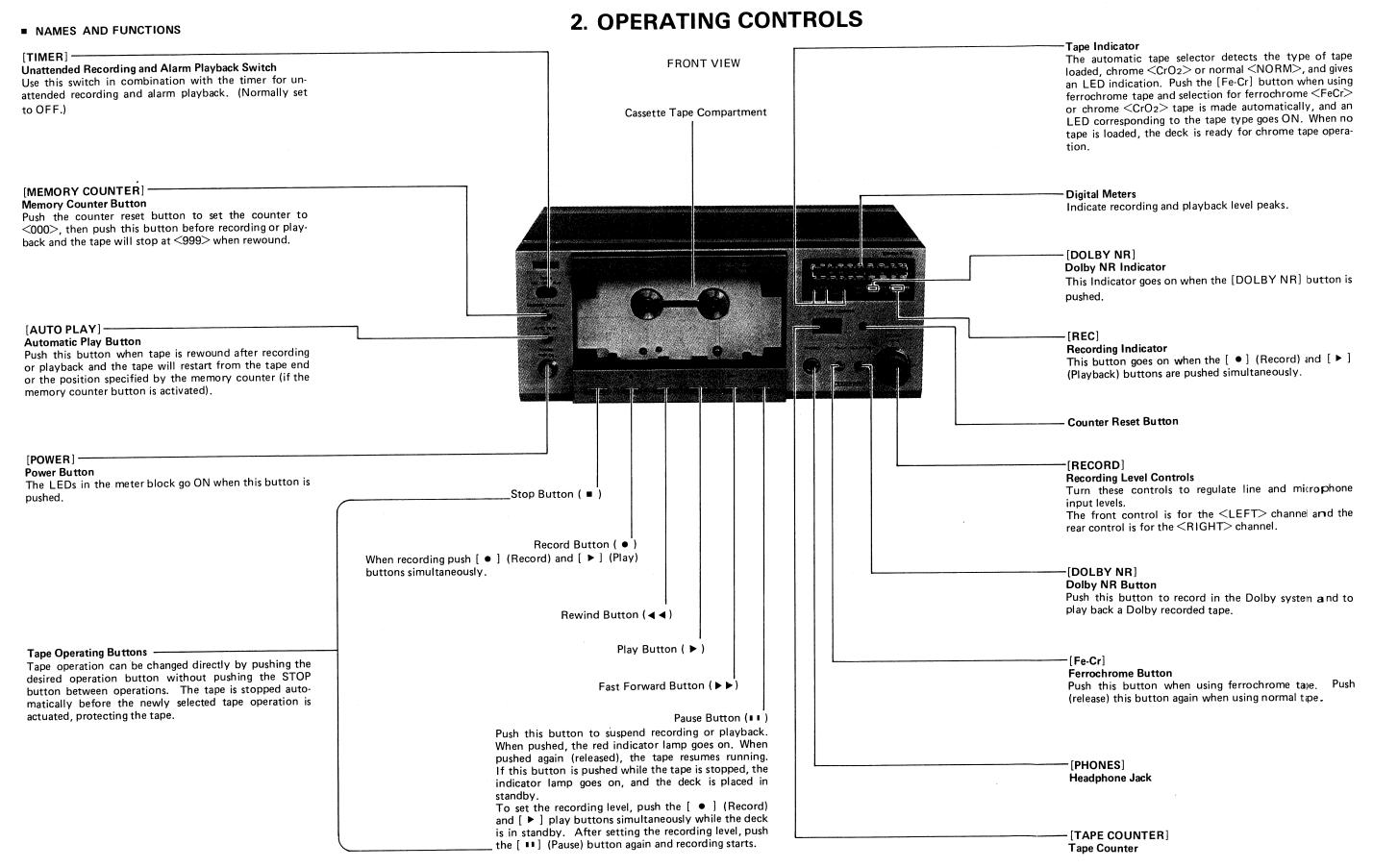


Figure 1

BACK VIEW

-[MIC] Microphone Jacks Connect a microphone (Optional) to these jacks; <LEFT> is for the left channel and <RIGHT> for the right channel. [OUTPUT] **Output Control** Turn this control to adjust the [LINE OUT] jack level to the tuner and record player levels. This control does not affect the headphone levels. Power Cord [LINE IN] Line Input Jacks External signals are input to these jacks through pin cords: <L> is for the left channel and <R> for the right channel. -[LINE OUT] Line Output Jacks The cassette deck signals are output from these jacks: <L> is for the left channel and <R> for the right [REMOTE] Remote Control Jack Connect the remote controller (Option RM-15) to this

Note: The rating and serial number plate is on the bottom of the set.

Figure 2

3. OPERATING INSTRUCTIONS

Notes:

- Operating buttons are not effective for 3 seconds after the power is turned ON.
- All operating buttons are reset when power is cut OFF.
- All operating buttons are ineffective until a tape is loaded. If a tape is unloaded during fast forward (FF) or rewind (REW) operation, the operating buttons

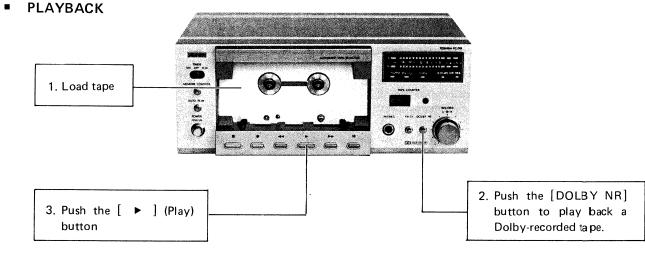
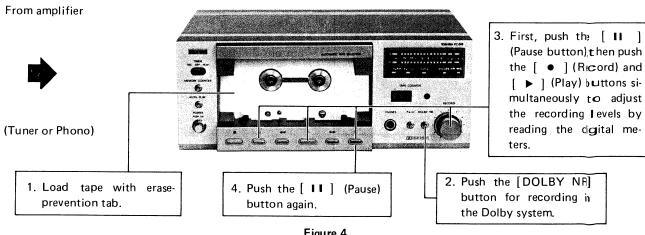


Figure 3.

- Push the [Fe-Cr] button when using ferrochrome
- If the [I I] (Pause) button is pushed, the [▶] (Play) button is not effective.
- The full automatic stop mechanism (Full ASO) stops recording, playback, fast forwarding, or rewinding when the tape end is sensed.

■ RECORDING FROM RECORD PLAYER OR RADIO



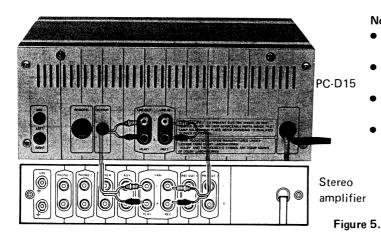
- Figure 4.
- Push the [Fe-Cr] button when using ferrochrome
- Adjust recording levels so that the red LEDs flicker in red (about 0 through +3 dB).

RECORDING WITH MICROPHONE

Insert the microphone plugs into the microphone jacks [MIC] on the rear panel and perform the pove proce-

• The microphone jacks have priority to the [LINE IN] jacks if pin cords are connected to the [LINE IN] jacks.

CONNECTION



Notes:

- Connect the connection cords (stereo pin cords) as shown above
- Always use red plugs for the right channels for convenience.
- Cut off the amplifier power before making connections.
- Insert plugs fully to prevent noise.

4. TECHNICAL POINTS

IC LOGIC CONTROL

Features

- 1. Direct changeover of all operation modes. Changeover via the STOP mode is possible if necessary.
- Protection against maloperations such as depressing the input key twice.
- The STOP mode is automatically selected when the power supply switch is turned on and off.
- Timer operation such as automatic recording in your absence.
- 5. Various controls other than the key operation.
 - Memory Counter
 - Auto play
 - External remote control jack (For RM-15).
- 6. IC, TC9121P
 - 1. Desired control is possible by lowering the input key temporarily to the "L" level.
 - A number of output signal terminals are provided to apply to various type sets.
 - The output terminal contains a bipolar transistor for easy driving of each circuit. It can also drive the LED for direct indicator.

Functions in Each Operation Mode

- REC: This is valid only when the "L" level is set with the "PLAY" switch.
- PAUSE: This is used to temporarily stop the tape runing. It is a self-set/reset type switch and valid only during STOP, PLAY and REC modes.
- 3. AUTO This operates when the "L" signal is PLAY: applied to X or Z (ASO) during the REW operation.
 - H: The STOP mode is selected in this position.

- L: The STOP mode is once selected, and then the PLAY mode is automatically selected
- 4. X: This is an input terminal used to instruct STOP or PLAY operation during the REW mode. A memory counter is connected to this terminal.

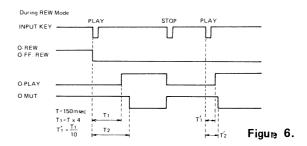
(This terminal refuses any input during operation modes other than the REW modes.)

5. Z: This is an input terminal used to receive a signal which has detected stop of tape running.

The tape runs at "H" level. The tape stops at "L" level.

Operation Timings of Output Terminals against Key Inputs

A stop period is provided between operation timings to protect a tape and the internal mechanism when the operation mode is directly changed over.



The time constant is switched to speed up the operation response, except for the direct changeover function.

Functions at Turning ON and OFF the Power Supply

- 1. The STOP mode is automatically selected when the power switch is turned on and off. This function is realized by inserting a capacitor between the input terminal "STOP" and the ground.
- 2. Timer operation
 - A capacitor is inserted into each input terminal through the timer switch, so that the PLAY or REC/-PLAY mode is automatically selected when the power is supplied. (This time constant is set longer than that of the STOP switch capacitor.
- 3. Setting of the timer operation warm-up time and quick stop when the power is turned off.

< INH (Inhibit) Terminal >

When this terminal is set to the "L" position, all outputs other than O-MUT and O-TAPE-END are interrupted regardless of the operation mode. The output can be obtained only when this terminal is set to the "H" position. See Figure 8 and 9.

- 1. The warm-up time is determined by R1 and C1. INH threshold voltage is VDD/2.
- 2. The discharge time constant is determined by C1 and R2. If the value of R2 is smaller, the time constant becomes shorter.
- 3. R3 and D4 are used to protect the IC.

Table 1

Pin No.	Terminal Name		Pin No.	Terminal Name	
1	GND		13	osc	
2	(REW)	IN	14	INH	OUT
3	(F.F.)	IN	15	O-PLAY	OUT
4	(PLAY)	IN	16	O-REC	оит
5	(REC)	IN	17	O-STOP	оит
6	(STOP)	IN	18	O-FF-RFW	OUT
7	(PAUSE)	IN	19	O-PAUSE	оит
8	A-REW	IN	20	O-MUT	OUT
9	A-PLAY	IN	21	O-REW	OUT
10	Y	IN	22	O-FF	OUT
11	x	IN	23	O-TAPE-END	OUT
12	Z	IN	24	VDD	+B

Figure 7.

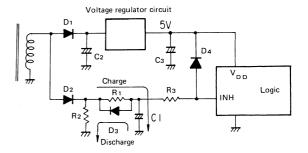


Figure 8.

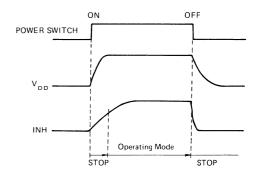
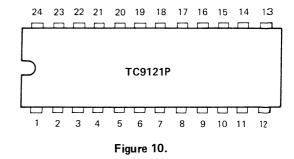


Figure 9.



Applying an input signal

- (REW), (FF), (PLAY), (REC), (STOP), X, Y and Z terminals operate at the temporary "L" leve. However, (REC) and (PLAY) must be simultaneously set to the "L" level.
- 2. Since (PAUSE) contains the chattering prevention circuit, it holds the 1.5 times duration of the 0scillating cycle at "L" level.

Operation for multiple inputs

Input-1	Input-2	Input-2 (multiple input performed together with the input-1					
(STOP)	(REW)	(FF)	(PLAY)	(REC)	(PAUSE)	STOP	
(FF)	(REW)	(PLAY)				STOP	
(FF)	(REC)	(PAUSE)				FF	
(REW)	(FF)	(PLAY)				STOP	
(NEVV)	(REC)	(PAUSE)				REW	
(PLAY)	(PAUSE)					PLAY/PAUSE	
.	(PLAY)					REC/PLAY	
(REC)	(PAUSE)					PAUSE	
	(PLAY) ar	nd (PAUSE)				REC/PAUSE)	

Figure 11.

Notes:

- 1. The (STOP) operation takes preference over all the other operations. No other input is accepted during input for the (STOP).
- 2. When two or more of (PLAY), (FF) and (REW) switches are depressed at the same time, the STOP mode is selected.
- The (PAUSE) operation is permitted only during STOP, PLAY and REC/PLAY modes, and not permitted during FF and REW modes.
- 4. The (REC) input is valid only when it is given simultaneously with the (PLAY) input.

Operation Timing Chart

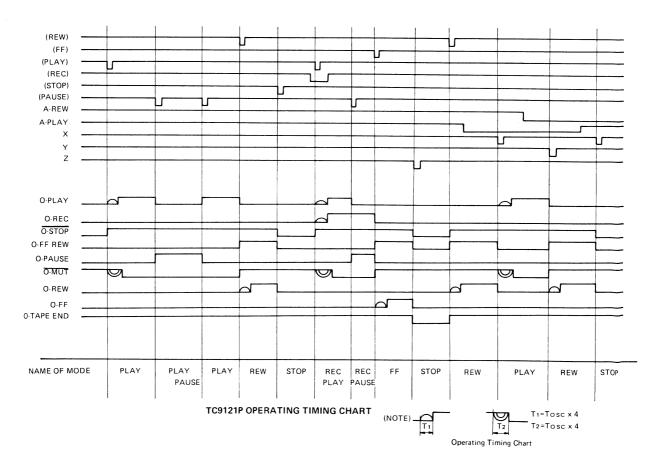
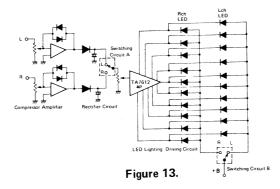


Figure 12.

LED METER CIRCUIT

1. Block diagram



2. Operation of the switching circuit

Supplies electricity alternately to L channel (Ω_1 , Ω_3) and R channel (Ω_2 , Ω_4) of the switching transistors provided before and after the LED and drive circuits, on half cycles of the multivibrator oscillation frequency (approx. 400Hz).

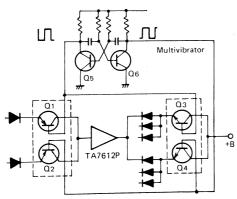


Figure 14.

3. TA7612AP

Ten comparators are built in so that the comparison reference voltage can be applied in series.

These comparators turn on sequentially in relation to Vin.

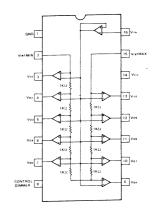


Figure 15.

MECHANICAL PERFORMANCE

• Tape Speed: 4.8 cm/sec.

No.	Item	Test Condition	Unit	Nominal	Limit
1	Tape speed deviation	Tape: MTT-111 (Play)	%	0	±2
2	Tape speed drift	Tape: MTT-111 (Play)	%	0.5	±1
3	Fast forwarding time	Tape: C-60, Tape torque: Less than 8 g.cm	Sec.	75	60 ₺ 85
4	Rewinding time	Tape: C-60, Tape torque: Less than 8 g.cm	Sec.	75	60 ₺ 85
5	Head Azimuth	MTT-114 (Play), Azimuth adjustment	dB	0	±2
6	Take-up torque	Play torque cassette tape	g.cm	50	35 ₺ 65
		FF torque cassette tape	g.cm	110	80 🗠 130
		REW torque cassette tape	g.cm	110	80 🗢 130

Figure 16.

5. DISASSEMBLY INSTRUCTIONS

- Required tools for disassembly: Plus drivers (3mm) and 2.6 mm).
- Parenthesized numerals for screws are the same symbol numbers as used on the exploded view.

REMOVAL OF FRONT PANEL

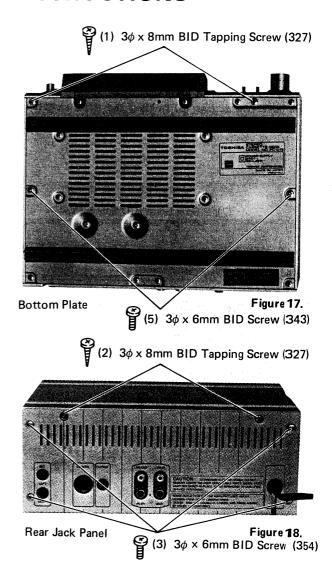
- 1. Remove two screws (1) holding the panel and the bottom plate as shown in Figure 17.
- 2. Remove two screws (2) holding the front panel and the front panel can be removed as shown in Figure 17.

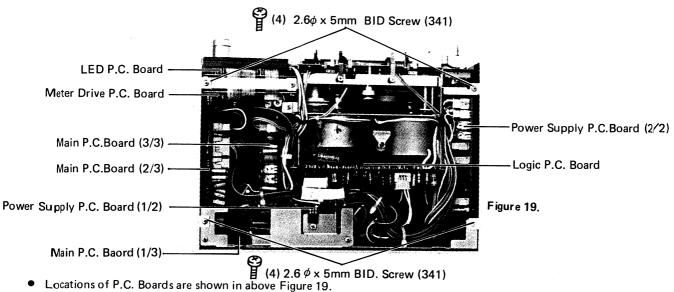
REMOVAL OF REAR PANEL JACKS

1. Remove four screws (3) holding jack panel as shown in Figure 18.

REMOVAL OF SIDE PANEL ASSEMBLY

- 1. Remove four screws (4) holding the side panels as shown in Figure 19.
- 2. Remove two screws (5) holding the bottom plate and the side panels as shown in Figure 17.





REMOVAL OF HEAD COVER

- 1. Remove two screws (6) holding the head cover as shown in Figure 21.
- 2. Remove two screws (7) from the bottom plate, as shown in figure 20 and terminals of the recording playback and erase heads can be checked.

REMOVAL OF TIMER SWITCH

1. Remove two screws (8) holding the timer switch as shown in Figure 21.

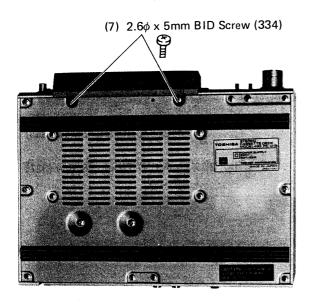


Figure 20.

REMOVAL OF POWER SUPPLY P.C. BOARDS (1/2, 2/2)

- 1. Remove the side panel assembly.
- 2. Remove two screws (9) holding the mounting bracket for the power supply P.C. Board (1/2) and then lift up the P.C. Board upward as shown in Figure 22.
- 3. Remove two screws (10) and one screw (11) holding the power supply P.C. Board (2/2) as shown in Figure 21 and 23.

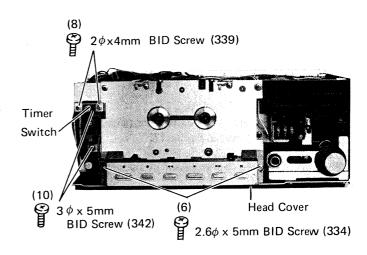
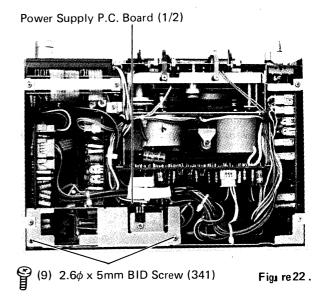
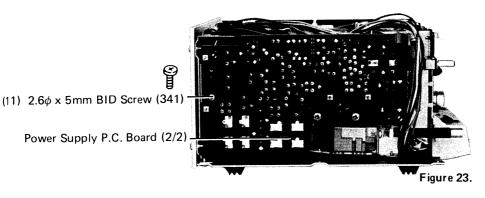


Figure 21.





REMOVAL OF POWER TRANSFORMER

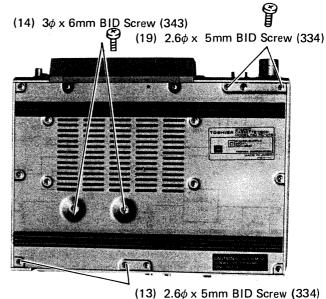
- 1. Remove one screw (12) and four screws(13) and (14) holding the bracket for the transformer as shown in Figure 24 and 25 and the bracket can be removed.
- Remove two screws (15) holding the power transformer with the mounting bracket as shown in Figure 25

REMOVAL OF TERMINALS

- After removal of the transformer mounting bracket, remove two black screws (16) holding the remote control socket as shown in Figure 25 and the socket can be removed.
- 2. Remove four plastic rivets (17) and one screw (18) holding the 4P jack and the 2P jack as shown in Figure 25 and then each jack can be removed. The 2P jack in soldered with the Main P.C. Board (1/3).

REMOVAL OF MAIN P.C. BOARD (1/3, 2/3, 1/3)

 After removal of the power transformer mounting bracket, remove two screws (19) and one screw (20) as shown in Figure 24 and 26 The type mechanism assembly and the main chassis assembly can be separated as illustrated with a dotted line. (See Figure 26.) This is capable or chekcking and replacing parts on the Main P.C.Board and the logic P.C.Board.



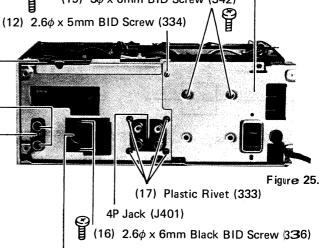
5/ 2.6φ x 5mm BID Screw (334

Figure 24.

Power Transformer Mounting Bracket

(15) 3φ x 6mm BID Screw (342)

Λ 🚱



Remote Control Socket (J902)

2P Jack (J402) –

Amp Chassis

(18) $3\phi \times 6$ mm PAN Screw (348)-REMOVAL OF LEVEL METER

- Remove two screws (21) and (22) holding the LED P.C.Board and the meter drive P.C.Board as shown in Figure 26 and 27, and these P.C. Boards with the tape counter can be removed. Take care of the counter belt looped on the tape counter.
- 2. Next, remove two screws (23) as shown in Figure 27, and light emitting diodes can be replaced.

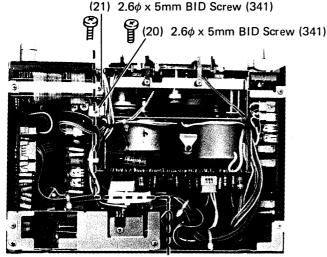


Figure 26.

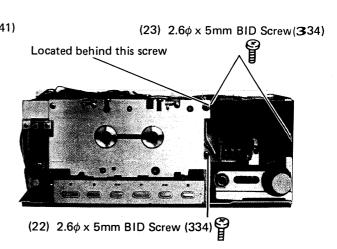
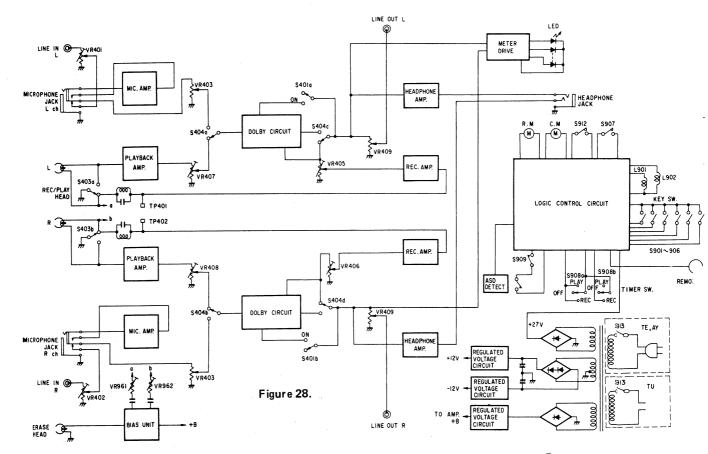


Figure 27.

6. BLOCK DIAGRAM



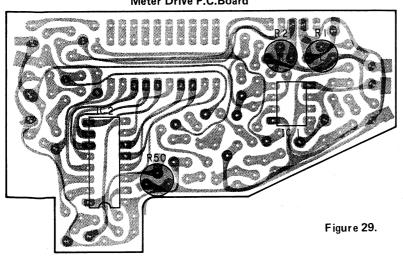
TEST EQUIPMENTS

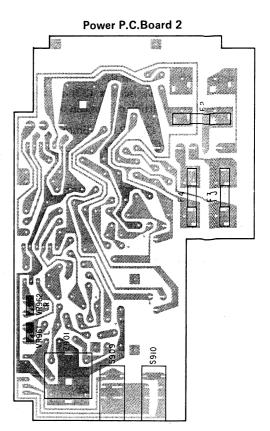
7. ELECTRICAL ADJUSTMENTS

- 1. VTVM (Vacuum Tube Voltmeter)
- 2. Signal Generator
- 3. Resistance Attenuator
- 4. Screwdriver
- 5. Test Tapes MTT-111 (3 kHz)

MTT-150 (400 Hz) AC-511 (CHROME TAPE) Red Screen: Component side
Black Screen. Solder side

Meter Drive P.C.Board





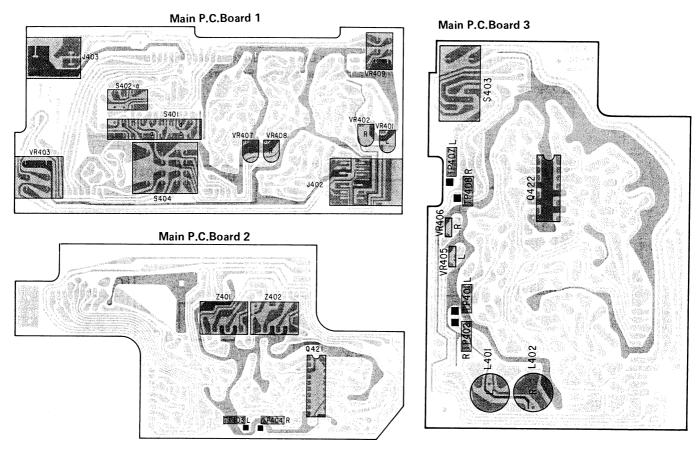


Figure 30.

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

- 1. Connect a VTVM (or Oscilloscope) across the LINE OUT jacks (J401 c and d).
- 2. Set the Input Level to "MIN" position and Output Level to "MAX" position.
- 3. Playback the Test Tape (MTT-111, 3 kHz) and adjust the azimuth adjusting screw so that the VTVM indicates maximum position (or Oscilloscope indicates 0°±50°).

CAUTION: When L and R channels are measured at the same time, level difference should be kept under ±2 dB at the maximum position.

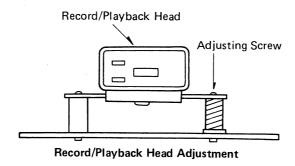


Figure 31.

PLAYBACK SENSITIVITY ADJUSTMENT

- 1. Connect a VTVM across the Test Points (TP403 and TP404.)
- 2. Set the Input Level to "MIN" position and Output Level to "MAX" position.
- 3. Set the Tape Selector Switch (S402) to "NORM" position and Dolby-NR Switch (S401) to "OUT" position.
- 4. Playback the Test Tape (MTT-150, 400 Hz) and adjust the Semi-fixed Resistors (VR407 and VR408) so that the VTVM indicates 775 ± 10 mV.

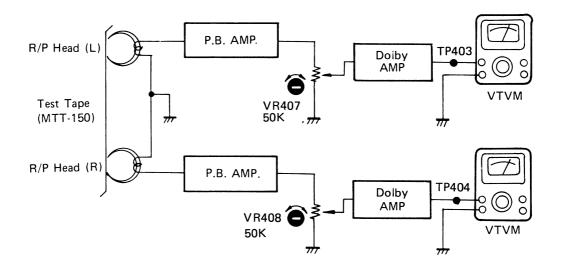


Figure 32.

BIAS LEAK ADJUSTMENT

- 1. Connect a VTVM across the Test Points (TP401 and TP402).
- 2. Set the Input Level to "MIN" position and Output Level to "MAX" position.
- 3. Set the Tape Selector Switch (S402) to "NORM" position and Dolby-NR Switch (S401) to "OUT" position.
- 4. Set this unit to recording mode and adjust the Trap Coils (L401 and L402) so that the VTVM indicates minimum position.

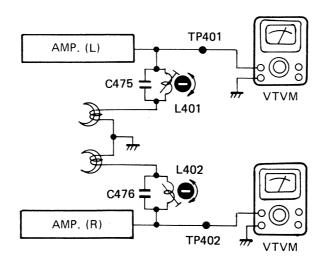


Figure 33.

LINE INPUT ADJUSTMENT

- 1. Connect a VTVM across the Test Points (TP403 and TP404).
- 2. Set the Input Level to "MAX" position and Output Level to "MIN" position.
- 3. Set the Tape Selector Switch (S402) to "NORM" position and Dolby-NR Switch (S401) to "OUT" position.
- 4. Apply a signal of 400 Hz, -20 dBV through the LINE IN jacks (J401 a and b).
- 5. Adjust Semi-fixed Resistors (VR401 and VR402) so the VTVM indicates 775 ±10mV.

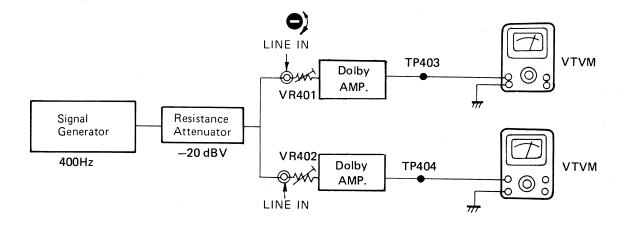


Figure 34.

LEVEL METER ADJUSTMENT

- 1. Set the Input Level to "MAX" position and Output Level to "MAX" position.
- 2. Set the Tape Selector Switch (S402) to "NORM" position and Dolby-NR Switch (S401) to "OUT" position.
- 3. Apply a signal of the following chart through the LINE IN jacks (J401 a and b).
- 4. Set this unit to recording mode and adjust the Semi-fixed Resistors (VR1 and VR2) so that the Level Meter indicates the following chart.

Frequency [Hz]	Gain [dB]	Meter Indicator	Frequency [Hz]	Gain [dB]	Meter Indicator
	0	R		-22	R 0 1 +
400	-33	- 10 .0 +	400	–20 to – 19	R 0 3 +
	-23	R 0 +		-19 to - 15	L

Figure. 35

- 16 -

RECORD/PLAYBACK FREQUENCY CHARACTERISTIC ADJUSTMENT

- 1. Connect a VTVM across the Test Points (TP403 and TP404).
- 2. Set the Input Level to "MAX" position and Output Level to "MAX" position.
- 3. Set the Tape Selector Switch (S402) to "CrO2" position and Dolby-NR Switch (S401) to "OUT" position.
- 4. Apply a signal of 400 Hz/10 kHz, -43 dBV through the LINE IN jacks (J401 a and b).
- 5. Set the tape (AC-511) on this unit and record a signal of 400 Hz and 10 kHz. Then rewind and playback the tape and adjust the Semi-fixed Resistors (VR961 and VR962) so that the difference between 400 Hz and 10 kHz outputs is kept within 0 dB (±1 dB).

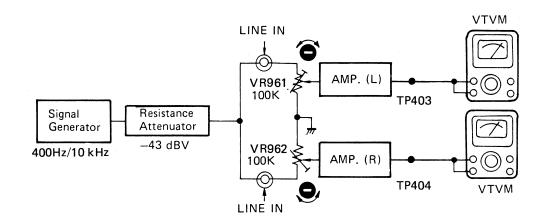


Figure 38.

RECORD/PLAYBACK SENSITIVITY ADJUSTMENT

- 1. Connect a VTVM across the Test Points (TP403 and TP404).
- 2. Set the Input Level to "MAX" position and Output Level to "MAX" position.
- 3. Set the Tape Selector Switch (S402) to "Cr-O2" position and Dolby-NR Switch (S401) to "OUT" position.
- 4. Apply a signal of 400 Hz, -20 dBV through the LINE IN jacks (J401 a and b).
- 5. Set the tape (AC-511) on this unit and record a signal of 400 Hz. Then rewind and playback the recorded tape and adjust the Semi-fixed Resistors (VR405 and VR406) so that the VTVM indicates 775 ±10mV.

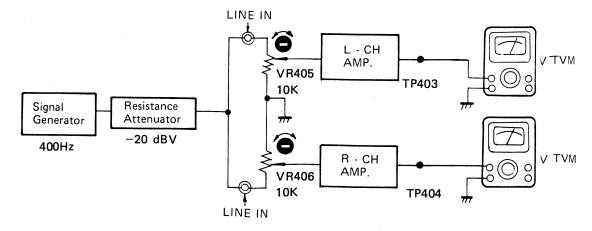
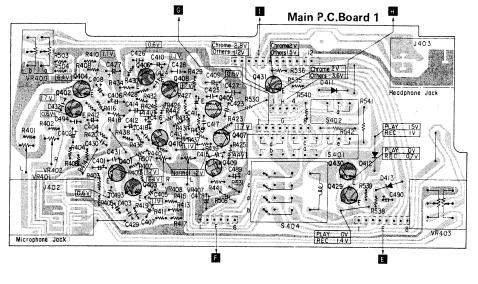
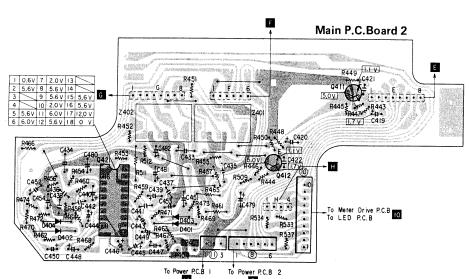
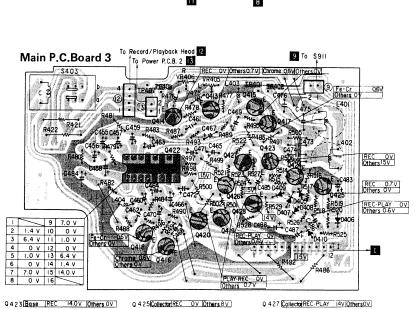


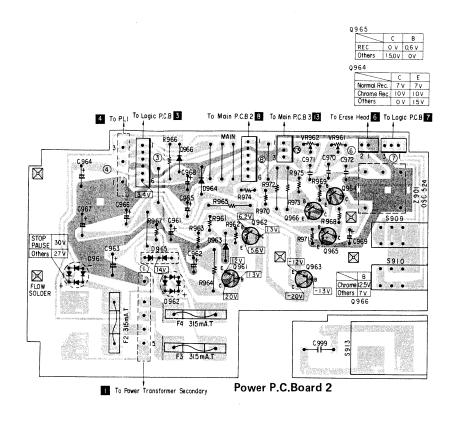
Figure 37.

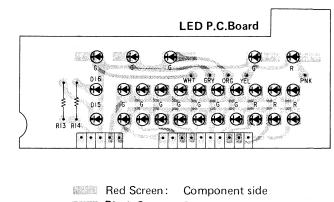
8. P.C. BOARD PARTS LOCATIONS

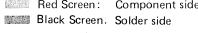


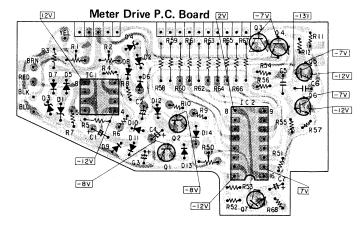


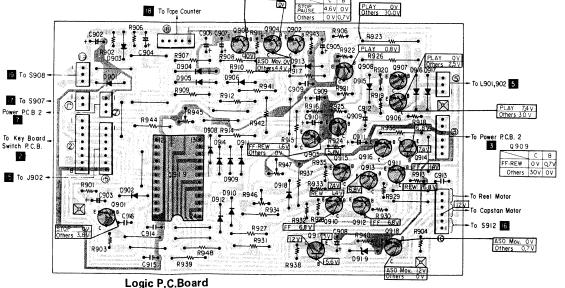




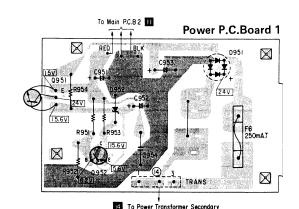










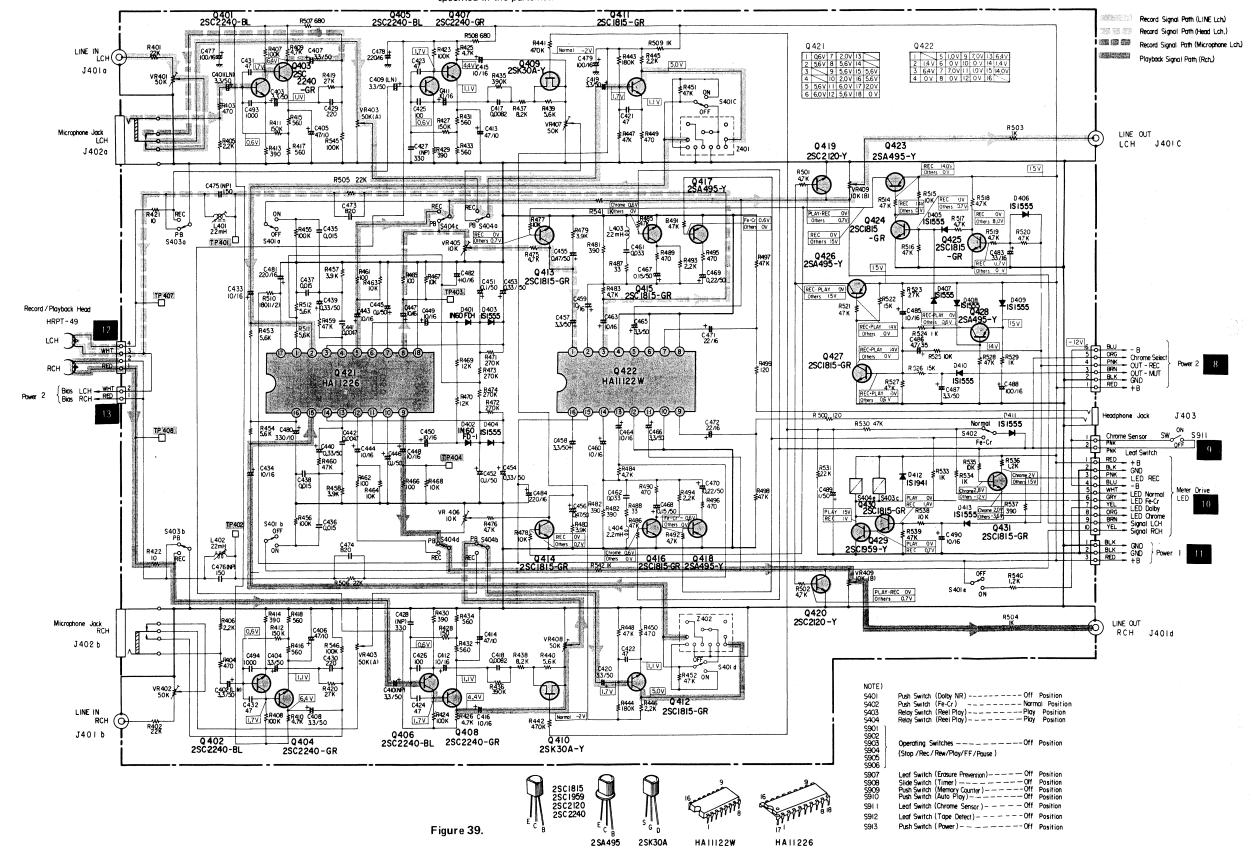


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9. SCHEMATIC DIAGRAM

CAUTION:

The \triangle mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.



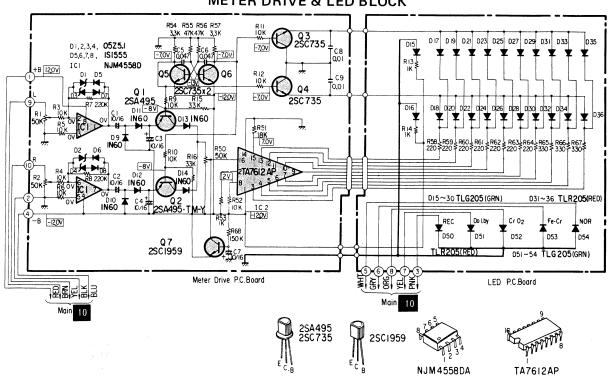
SCHEMATIC DIAGRAM

LOGIC BLOCK

CAUTION

The \bigwedge mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

METER DRIVE & LED BLOCK



POWER SUPPLY BLOCK

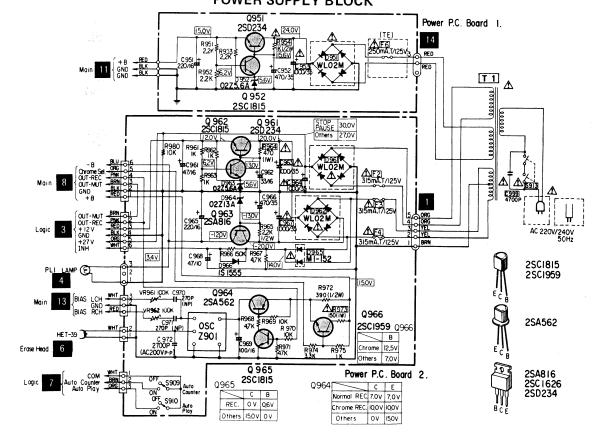
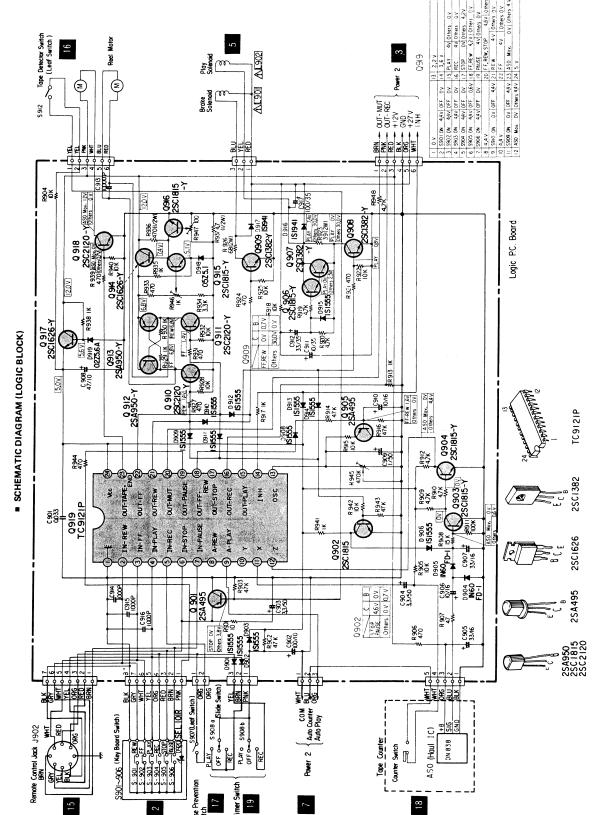
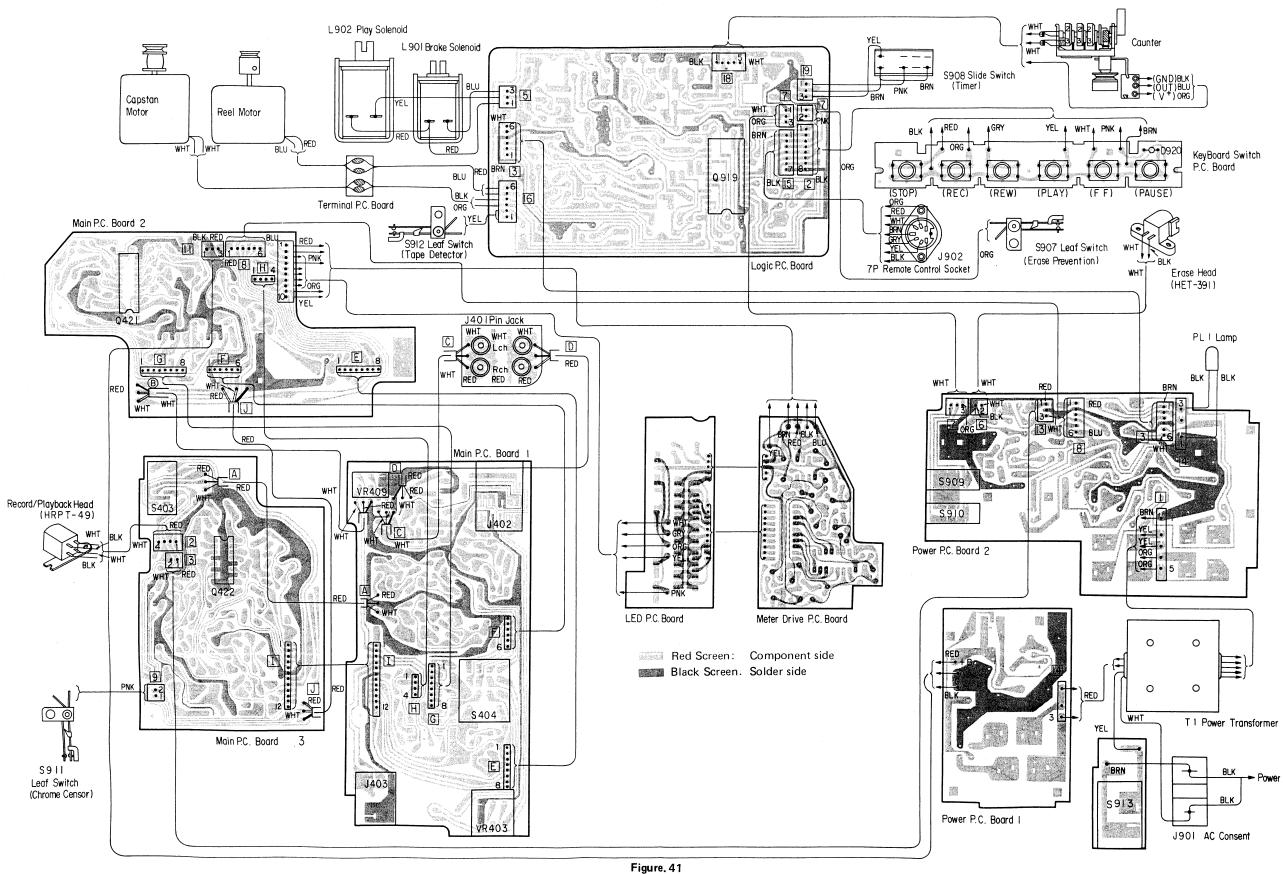


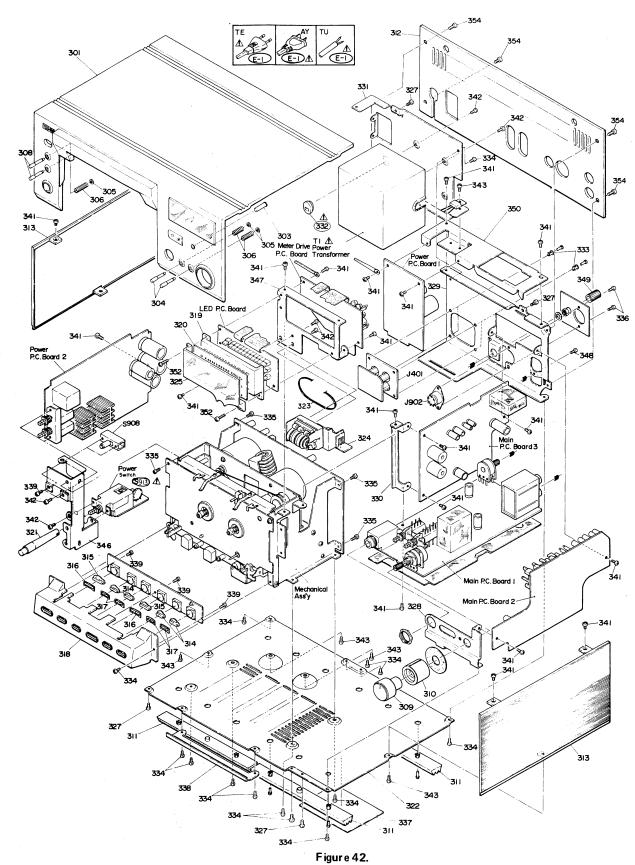
Figure 40.



10. WIRING



11. CABINET PARTS LOCATIONS



NOTE: Parts excluded in the Parts List are not available as replacement parts.

12. MECHANICAL PARTS LOCATIONS

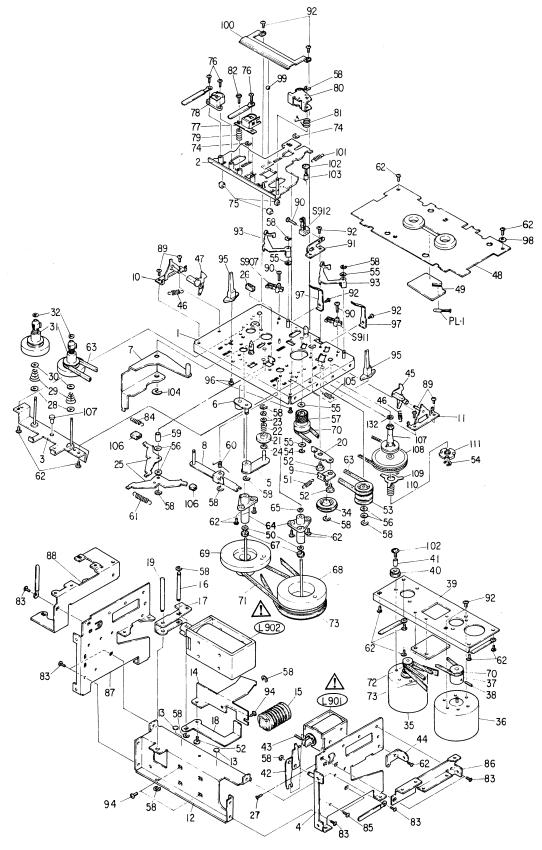


Figure 43

NOTE: Parts excluded in the Parts List are not available as replacement parts.

13. PARTS LIST

CAUTION:
The \(\frac{\cappa}{\cappa} \) mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
	MECHAN	ICAL PARTS	73	25755380	Belt, Drive (Flat)
	T	TOAL PARTS	74	22703279	E Washer, 3ϕ
13	25764386	Sheet, Nylon	75	25753325	Roller
15	25719539	Damper Ass'y	76	22707451	Screw, $2\phi \times 5$ mm (BID)
21	25713372	Fast-forward Idler Ass'y	77	22217306	Head, Record/Playback
22	25772329	Spring, Fast-forward Idler			(HRPT-49)
23	25764252	Nylon Washer	78	22218206	Head, Erase (HET-39)
24	25762356	Felt, Fast-forward	79	25772240	Spring, Head
26	25761400	Cushion, Arm	80	25717422	Pinch Roller Ass'y
27	25858224	Cap, Rubber	81	25773376	Spring, Pinch Roller
28	25764246	Washer, Nylon	82	25723420	Screw, Head Adjustment
29	25772254	Spring, Back Tension	83	22707151	Screw, $2.6\phi \times 5$ mm, (BID)
30	25764570	Washer	84	25771959	Spring, Play Lever
31	25712360	Reel Drum Ass'y	85	22701313	Screw, $3\phi \times 4$ mm, (BID)
32	25764549	Washer	89	22707265	Screw, $2\phi \times 4$ mm, (BID)
34	25713441	Idler Ass'y, Fast-forward	90	22701432	Screw, $2.6\phi \times 8$ mm, (BID)
35	25719576	Motor Ass'y, Main	92	22701389	Screw, $2.6\phi \times 3$ mm (BID)
36	22125679	Motor, Reel	94	22707452	Screw, $3\phi \times 5$ mm, (BID)
37	25751599	Pulley, Motor	95	25783205	Guide A
38	22701431	Screw, $2.6\phi \times 6$ mm (Slotted Set)	96	22707461	Screw, $2.6\phi \times 6$ mm,
40	25761238	Cushion, Rubber			(BID Tapping)
41	25733463	Spacer, Motor	97	25774589	Spring, Cassette Holder
43	25727251	Pin, Brake, Solenoid	98	25735202	Washer
4 5	25782257	Holder, Cassette (Right)	99	25757120	Steel Ball, 3 ϕ
46	25771963	Spring, Cassette Holder	100	25774390	Spring, Cassette Slider
4 7	25782292	Holder, Cassette (Left)	101	25771689	Spring, Take up Lever
48	25719577	Mechanism Cover Ass'y	102	22707018	Screw
5 0	25764592	Washer, Nylon	104	22703280	E Washer, 4 ϕ
51	25771771	Spring, Fast-forward	105	25771898	Spring
52	22701472	Screw, 2.6 ϕ x 13mm (FLT)	106	25761354	Cushion, Arm
53	25751482	Pulley, Middle	107	25713506	Pulley Ass'y, Tape-up
5 4	25735159	E Washer, 1.5 ϕ	108	25758026	Pulley, Play
5 5	25764398	Washer, Nylon	109	25734404	Control Plate, Torqu
56	25764400	Washer, Nylon	110	25772531	Spring, Friction Plate
5 7	25713478	Fast-forward Middle Pulley Ass'y	111	25758028	Spring, Retainer
58	22703118	E Washer, 2ϕ	112	25723427	Guide, FF Idler
6 0	25773374	Spring, Brake Lever			,
6 1	25771412	Spring, Brake		CARIN	ET PARTS
62	22707350	Screw, $2.6\phi \times 5$ mm (DT BID)		CABIN	EIPARIS
6 3	25755389	Belt, Counter	301	25817440	Front Panel Ass'y
6 4	25718158	Holder, Capstan Ass'y	303	25837266	Knob, Counter Reset
6 5	25764396	Washer	304	25837228	Knob, Push (Long)
6 7	25761291	Spacer	305	25674536	Washer, Nylon
6 8	25717396	Flywheel Ass'y	306	25772471	Spring, Knob
6 9	25717397	Sub Flywheel Ass'y	308	25837237	Knob, Push (Short)
7 0	25755376	Belt, Fast-forward/Rewind	309	25837198	Knob, Volume (Small)
71	25755379	Belt, Drive (Square)	310	25837199	Knob, Volume (Large)
7 2	25755377	Belt, Take up	311	22874046	Leg, Bottom Plate

Symbol No.	Part No.	Description
312	25829372	Panel, Jack
313	25817394	Side Board Ass'y
314	25837201	Knob, Push (Short)
315	25837202	Knob, Push (Long)
316	25774596	Spring, Knob (Long)
317	25774598	Spring, Knob (Short)
318	25838099	Cover, Head
321	25816562	Knob Ass'y, Power
323	25755226	Belt, Counter
324	25873198	Counter
325	25838149	Indicator, Meter
1	22707327	Screw, $3\phi \times 8$ mm, (BID
327	22/0/32/	
332	25845528	Tapping), Chrome Bush, Nylon
333	22705022	Rivet, Plastic, $3\phi \times 5.5$ mm
334	22707363	Screw, 2.6ϕ x 5mm, (DT BID), Chrome
335	22707170	Screw, $2.6\phi \times 5$ mm, (TT BID)
336	22707037	Screw, 2.6 ϕ x 6mm,(BID),Black
338	25838109	Bracket, Head
339	22707265	Screw, 2\phi x 4mm, (BID)
1	22707151	Screw, $2.6\phi \times 5$ mm, (BID)
341	22707151	Screw, $3\phi \times 5$ mm, (BID)
342		Screw, $3\phi \times 6$ mm, (BID), Black
343	22701321	
344	22701361	Screw, 2.6\(\phi\) x 5mm, (FLT)
348	22701482	Screw, 3\phi x 6mm, (PAN)
349	22834944	Knob, Base
352	22707169	Screw, 2.6 ϕ x10mm,(BID),Black
353	22707451	Screw, 2φ x 5mm, (BID)
354	22701457	Screw, 3φx6mm,(B!D),Chrome
7	RANSISTOR	S, DIODES AND IC'S
Q1, 2		Transistor, 2SA495TM.NEW-Y
Q3, 4		Transistor, 2SC735-Y.X
Q5, 6	1	Transistor, 2SC735-Y.X
Ω7		Transistor, 2SC1959NEW-Y
IC1	22114641	IC, RC4558-P
IC2		IC, TA7612P
Q401, 402		Transistor, 2SC2240NEW-BL
Q403, 404		Transistor, 2SC2240NEW-GR
Q405, 404	i	Transistor, 2SC2240NEW-BL
Q407, 408		Transistor, 2SC2240NEW-GR
		Transistor, 2SK30A-TM.Y
Q409, 410		Transistor, 2SC1815NEW-GR
Q411, 412		Transistor, 2SC1815NEW-GR
Q413, 414		l .
Q415, 416		Transistor, 2SC1815NEW-GR
1	1	Transistor, 2SA495TM.NEW-Y Transistor, 2SC2120-Y
Q417, 418		Firancistor 25C2T2FY
Q417, 418 C419, 420		
C419, 420 Q421	22114624	IC, HA11226
C419, 420 Q421 Q422	22114624 22114684	IC, HA11226 IC, HA11122W
C419, 420 Q421	1	IC, HA11226

Q425 Transistor, 2SC1815NEW-GR Q426 Transistor, 2SA495TM.NEW-Y Q427 Transistor, 2SC1815NEW-GR Q428 Transistor, 2SC1815NEW-GR Q430 Transistor, 2SC1815NEW-GR Q431 Transistor, 2SC1815NEW-GR Q901 Transistor, 2SC1815-Y Q902 Transistor, 2SC1815-Y Q903 Transistor, 2SC1815-Y Q904 Transistor, 2SC1815-Y Q905 Transistor, 2SC1815-Y Q906 Transistor, 2SC1382-Y Q909 Transistor, 2SC1382-Y Q909 Transistor, 2SC1382-Y Q909 Transistor, 2SC1382-Y Q910 Transistor, 2SC1382-Y Q911 Transistor, 2SC12120-Y Q912 Transistor, 2SC1382-Y Q913 Transistor, 2SC12120-Y Q914 Transistor, 2SC2120-Y Q915 Transistor, 2SC1815-Y Q916 Transistor, 2SC1815-Y Q917 Transistor, 2SC1815-Y Q918 Transistor, 2SC1815-Y Q919 Transistor, 2SC1815-Y	Symbol No.	Part No.	Description
0426 Transistor, 2SA495TM.NEW-Y 0427 Transistor, 2SC1815NEW-GR 0428 Transistor, 2SC1959NEW-Y 0429 Transistor, 2SC1959NEW-Y 0430 Transistor, 2SC1815NEW-GR 0431 Transistor, 2SC1815NEW-GR 0901 Transistor, 2SC1815-Y 0902 Transistor, 2SC1815-Y 0903 Transistor, 2SC1815-Y 0904 Transistor, 2SC1815-Y 0905 Transistor, 2SC1815-Y 0906 Transistor, 2SC1815-Y 0907 Transistor, 2SC1882-Y 0908 Transistor, 2SC1382-Y 0909 Transistor, 2SC1382-Y 0910 Transistor, 2SC1382-Y 0911 Transistor, 2SC1382-Y 0912 Transistor, 2SC120-Y 0913 Transistor, 2SC2120-Y 0914 Transistor, 2SC1815-Y 0915 Transistor, 2SC1815-Y 0916 Transistor, 2SC1815-Y 0917 Transistor, 2SC1815-Y 0918 Transistor, 2SC1815-Y 0952 Transistor, 2SC1815-Y 0	Q425		Transistor, 2SC1815NEW-GR
0427 Transistor, 2SC1815NEW-GR 0428 Transistor, 2SA495TM.NEW-Y 0429 Transistor, 2SC1959NEW-Y 0430 Transistor, 2SC1815NEW-GR 0431 Transistor, 2SC1815NEW-GR 0901 Transistor, 2SC1815-W 0902 Transistor, 2SC1815-Y 0903 Transistor, 2SC1815-Y 0904 Transistor, 2SC1815-Y 0905 Transistor, 2SC1815-Y 0906 Transistor, 2SC1815-Y 0907 Transistor, 2SC1815-Y 0908 Transistor, 2SC1382-Y 0909 Transistor, 2SC1382-Y 0901 Transistor, 2SC1382-Y 0901 Transistor, 2SC2120-Y 0911 Transistor, 2SC185-Y 0912 Transistor, 2SC1815-Y 0913 Transistor, 2SC1815-Y 0914 Transistor, 2SC1815-Y 0915 Transistor, 2SC1815-Y 0916			
0428 Transistor, 2SA495TM.NEW-Y 0429 Transistor, 2SC1959NEW-Y 0430 Transistor, 2SC1815NEW-GR 0431 Transistor, 2SC1815NEW-GR 0901 Transistor, 2SC1815-Y 0902 Transistor, 2SC1815-Y 0903 Transistor, 2SC1815-Y 0904 Transistor, 2SC1815-Y 0905 Transistor, 2SC1815-Y 0906 Transistor, 2SC1815-Y 0907 Transistor, 2SC1815-Y 0908 Transistor, 2SC1382-Y 0909 Transistor, 2SC1382-Y 0909 Transistor, 2SC1382-Y 0910 Transistor, 2SC1382-Y 0911 Transistor, 2SC2120-Y 0912 Transistor, 2SC2120-Y 0913 Transistor, 2SC2120-Y 0914 Transistor, 2SC1815-Y 0915 Transistor, 2SC1815-Y 0916 Transistor, 2SC1815-Y 0917 Transistor, 2SC1815-Y 0918 Transistor, 2SC1815-Y 0951 Transistor, 2SC1815-Y 0962 Transistor, 2SC1815-Y 0963 <td></td> <td></td> <td>1</td>			1
0429 Transistor, 2SC1959NEW-Y 0430 Transistor, 2SC1815NEW-GR 0431 Transistor, 2SC1815NEW-GR 0901 Transistor, 2SC1815NEW-GR 0902 Transistor, 2SC1815-Y 0903 Transistor, 2SC1815-Y 0904 Transistor, 2SC1815-Y 0905 Transistor, 2SC1815-Y 0906 Transistor, 2SC1815-Y 0907 Transistor, 2SC1382-Y 0908 Transistor, 2SC1382-Y 0909 Transistor, 2SC1382-Y 0909 Transistor, 2SC1382-Y 0910 Transistor, 2SC1382-Y 0911 Transistor, 2SC2120-Y 0912 Transistor, 2SC2120-Y 0913 Transistor, 2SC3950-Y 0914 Transistor, 2SC1815-Y 0915 Transistor, 2SC1815-Y 0916 Transistor, 2SC1815-Y 0917 Transistor, 2SC1815-Y 0918 Transistor, 2SC1815-Y 0952 Transistor, 2SC1815-Y 0961 Transistor, 2SC1815-Y 0962 Transistor, 2SC1815-Y 0963 <td></td> <td></td> <td></td>			
Q430 Transistor, 2SC1815NEW-GR Q431 Transistor, 2SC1815NEW-GR Q901 Transistor, 2SC1815NEW-Y Q902 Transistor, 2SC1815-Y Q903 Transistor, 2SC1815-Y Q904 Transistor, 2SC1815-Y Q905 Transistor, 2SC1815-Y Q906 Transistor, 2SC1382-Y Q907 Transistor, 2SC1382-Y Q908 Transistor, 2SC1382-Y Q909 Transistor, 2SC1382-Y Q910 Transistor, 2SC12120-Y Q911 Transistor, 2SC2120-Y Q912 Transistor, 2SC2120-Y Q913 Transistor, 2SC3950-Y Q914 Transistor, 2SC1626-Y Q915 Transistor, 2SC1815-Y Q916 Transistor, 2SC1815-Y Q917 Transistor, 2SC1815-Y Q918 Transistor, 2SC1815-Y Q919 IC, TC9121P Q951 Transistor, 2SC1815-Y Q962 Transistor, 2SC1815-Y Q963 Transistor, 2SC1815-Y Q964 Transistor, 2SC1815-Y Q965 Transistor, 2SC1815-Y Q966 Transistor, 2SC18			
Q431 Transistor, 2SC1815NEW-GR Q901 Transistor, 2SC1815-Y Q903 Transistor, 2SC1815-Y Q904 Transistor, 2SC1815-Y Q905 Transistor, 2SC1815-Y Q906 Transistor, 2SC1815-Y Q907 Transistor, 2SC1882-Y Q908 Transistor, 2SC1382-Y Q910 Transistor, 2SC1382-Y Q911 Transistor, 2SC12120-Y Q912 Transistor, 2SC2120-Y Q913 Transistor, 2SC2120-Y Q914 Transistor, 2SC1626-Y Q915 Transistor, 2SC1815-Y Q916 Transistor, 2SC1815-Y Q917 Transistor, 2SC1815-Y Q918 Transistor, 2SC1815-Y Q919 IC, TC9121P Transistor, 2SC1815-Y Transistor, 2SC1815-Y Q952 Transistor, 2SC1815-Y Q963 Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Q963 Transistor, 2SC1815-Y Q964 Transistor, 2SC1850-Y Q965 Transistor, 2SC1959N EW-Y D1, 2 Diode, 1N60-FD1 11, 12			
0901 Transistor, 2SA495TM.NEW-Y 0902 Transistor, 2SC1815-Y 0903 Transistor, 2SC1815-Y 0904 Transistor, 2SC1815-Y 0905 Transistor, 2SC1815-Y 0906 Transistor, 2SC1815-Y 0907 Transistor, 2SC1382-Y 0908 Transistor, 2SC1382-Y 0909 Transistor, 2SC1382-Y 0910 Transistor, 2SC2120-Y 0911 Transistor, 2SC2120-Y 0912 Transistor, 2SC2120-Y 0913 Transistor, 2SC3950-Y 0914 Transistor, 2SC1815-Y 0915 Transistor, 2SC1815-Y 0916 Transistor, 2SC1815-Y 0917 Transistor, 2SC1815-Y 0918 Transistor, 2SC2120-Y 0919 IC, TC9121P 0951 Transistor, 2SC1815-Y 0962 Transistor, 2SC1815-Y 0963 Transistor, 2SC1815-Y 0964 Transistor, 2SC1815-Y 0965 Transistor, 2SC1815-Y 0966 Transistor, 2SC1815-Y 0967 Transistor, 2SC1815-Y 0968 Transistor, 2SC1855-Y <td></td> <td></td> <td></td>			
Q902 Transistor, 2SC1815-Y Q904 Transistor, 2SC1815-Y Q905 Transistor, 2SC1815-Y Q906 Transistor, 2SC1815-Y Q907 Transistor, 2SC1382-Y Q908 Transistor, 2SC1382-Y Q909 Transistor, 2SC1382-Y Q910 Transistor, 2SC2120-Y Q911 Transistor, 2SC2120-Y Q912 Transistor, 2SC4950-Y Q913 Transistor, 2SC4950-Y Q914 Transistor, 2SC1626-Y Q915 Transistor, 2SC1815-Y Q916 Transistor, 2SC1815-Y Q917 Transistor, 2SC1815-Y Q918 Transistor, 2SC2120-Y Q919 IC, TC912IP Transistor, 2SC2120-Y IC, TC912IP Transistor, 2SC1815-Y Transistor, 2SC1815-Y Q961 Transistor, 2SC1815-Y Q962 Transistor, 2SC1815-Y Q963 Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1959NEW-Y Diode, 1S1555V 7, 8 Diode, 1N60-FD1			· · · · · · · · · · · · · · · · · · ·
Q903 Transistor, 2SC1815-Y Q904 Transistor, 2SC1815-Y Q905 Transistor, 2SC1815-Y Q906 Transistor, 2SC1815-Y Q907 Transistor, 2SC1382-Y Q908 Transistor, 2SC1382-Y Q909 Transistor, 2SC1382-Y Q910 Transistor, 2SC1382-Y Q911 Transistor, 2SC2120-Y Q912 Transistor, 2SC2120-Y Q913 Transistor, 2SC3950-Y Q914 Transistor, 2SC1626-Y Q915 Transistor, 2SC1815-Y Q916 Transistor, 2SC1815-Y Q917 Transistor, 2SC1815-Y Q918 Transistor, 2SC2120-Y Q919 IC, TC9121P Q951 Transistor, 2SC1815-Y Q952 Transistor, 2SC1815-Y Q963 Transistor, 2SC1815-Y Q964 Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Q965 Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Q966 Transistor, 2SC1815-Y <td< td=""><td></td><td></td><td></td></td<>			
Q904 Transistor, 2SC1815-Y Q905 Transistor, 2SA495TM.NEW-Y Q906 Transistor, 2SC1815-Y Q907 Transistor, 2SC1382-Y Q908 Transistor, 2SC1382-Y Q909 Transistor, 2SC1382-Y Q910 Transistor, 2SC2120-Y Q911 Transistor, 2SC2120-Y Q912 Transistor, 2SC2120-Y Q913 Transistor, 2SC1626-Y Q914 Transistor, 2SC1815-Y Q915 Transistor, 2SC1815-Y Q916 Transistor, 2SC2120-Y Q917 Transistor, 2SC2120-Y Q918 Transistor, 2SC2120-Y Q919 IC, TC9121P Q951 Transistor, 2SC21815-Y Q952 Transistor, 2SC1815-Y Q963 Transistor, 2SC1815-Y Q964 Transistor, 2SC1815-Y Q965 Transistor, 2SC1815-Y Q966 Transistor, 2SC1959NEW-Y D1, 2 Diode, 1S1555V 7, 8 Diode, 1N60-FD1 11, 12 Diode, TLG205 17, 18 Diode, TLG205			
Q905 Transistor, 2SA495TM.NEW-Y Q906 Transistor, 2SC1815-Y Q907 Transistor, 2SC1382-Y Q908 Transistor, 2SC1382-Y Q910 Transistor, 2SC2120-Y Q911 Transistor, 2SC2120-Y Q912 Transistor, 2SC2120-Y Q913 Transistor, 2SA950-Y Q914 Transistor, 2SC1626-Y Q915 Transistor, 2SC1815-Y Q916 Transistor, 2SC1815-Y Q917 Transistor, 2SC120-Y Q918 Transistor, 2SC2120-Y Q919 IC, TC912IP Q951 Transistor, 2SD234-Y Q952 Transistor, 2SC1815-Y Q963 Transistor, 2SC1815-Y Q964 Transistor, 2SC1815-Y Q965 Transistor, 2SC1859NEW-Y D1, 2 Joing, 1S1555V Q966 Transistor, 2SC1959NEW-Y D1, 2 Diode, 1S1555V Q96 Transistor, 2SC1959NEW-Y D1, 1, 12 Diode, 1S1555V Q9, 30 Diode, TLG205			
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Q965 Q966 Transistor, 2SC1815-Y Transistor, 2SC1959NEW-Y D1, 2 3, 4 D5, 6 7, 8 D9, 10 11, 12 13, 14 D15, 16 17, 18 19, 20 21, 22 23, 24 25, 26 27, 28 29, 30 D31, 32 33, 34 35, 36	Q963		Transistor, 2SA816-Y
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13, 14 D15, 16 17, 18 19, 20 21, 22 23, 24 25, 26 27, 28 29, 30 D31, 32 33, 34 35, 36	D9, 10		Diode, 1N60-FD1
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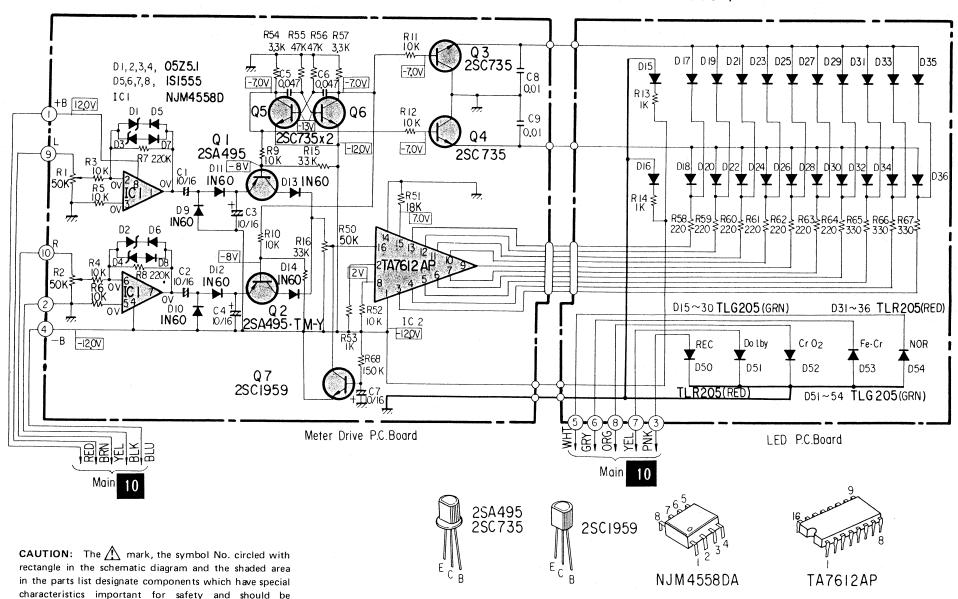
	Symbol No.	Part No.	Description		Symbol No.	Part No.	Description
	D51,52		Diode, TLG205		L401, 402	22232143	Coil, 22mH
	53,54				L403, 404	22232207	Coil, 2.2mH
	D401, 402		Diode, 1N60-FD1	Δ	L901	22147209	Solenoid, Brake
	D403, 404		Diode, 1S1555V	$ \Lambda $	L902	22147210	Solenoid, Play
	405, 406			į.	PL1	22113441	Lamp, 40mA/14V
	407, 408			$ \Lambda $	F2, 3, 4	22144407	Fuse, 315mA.T/125V
	409, 410			$ \Lambda$	F6	22144289	Fuse, 250mA.T/125V (TE)
	411, 413			$ \Lambda$	E1 **	22176286	Cord. Power (TE)
	D412		Diode, 1S1941	$ \Delta$	E1 24	22176536	Cord, Power (TU)
	D901, 902		Diode, 1S1555V	$ \Lambda $	E1 💯	22176588	Cord, Power (AY)
	903, 906				AL-KNOW, CODERNOOD RESIDENCE		 新世紀における中央を表現の報告を表現を表現を表現している。
	D904, 905		Diode, 1N60-FD1			·	
	D908, 909		Diode, 1S1555V			CAP	ACITORS
	D910, 911		Diode, 1S1555V		$J = \pm 5\%$,	$K = \pm 10\%, P =$	= -0 +100%, Z = -20 + 80%
	912, 913					T	
	914, 915				C1, 2	22445100	Electrolytic, 10mfd, 16V
	D916, 917		Diode, 1S1941		C3, 4	22445100	Electrolytic, 10mfd, 16V
	D918		Diode, 05Z5.1		C5, 6	22371473	Mylar, 0.047mfd, 50V, J
	D919		Diode, 02Z5.6A		C7	22445100	Electrolytic, 10mfd, 16V
	D920	22115616	Diode, SEL101R		C8, 9	22371103	Mylar, 0.01mfd, 50V, J
Δ	D951 - 👫	22115485	Diode, WL02M		C401, 402	22468339	Electrolytic, 3.3mfd, 50V
	D952		Diode, 02Z5.6A		C403, 404	22448339	Electrolytic, 3.3mfd, 50V
Φ	D961,962	22115485	Diode, WL02M		C405, 406	22443470	Electrolytic, 47mfd, 10V
	D9 6 3		Diode, 02Z5.6A		C407, 408	22448339	Electrolytic, 3.3mfd, 50V
,	D964		Diode, 02Z13A		C409, 410	22468339	Electrolytic, 3.3mfd, 50V
Δ	D965	22115427	Diode, MI-152		C411, 412	22445100	Electrolytic, 10mfd, 16V
	D966		Diode, 1S1555V		C413, 414	22443470	Electrolytic, 47mfd, 10V
					C415, 416	22445100	Electrolytic, 10mfd, 16V
					C417, 418	22371822	Mylar, 8200pF, 50V, J
					C419, 420	22448339 22362470	Electrolytic, 3.3mfd, 50V
		ELECTRI	CAL PARTS		C421, 422 C423, 424	22362470	Ceramic, 47mfd, 50V, K Ceramic, 47mfd, 50V, K
					C425, 424 C425, 426	22362101	Ceramic, 47111d, 50V, K
Δ	T1	THE REPORT OF THE PARTY OF THE	Transformer, Power (TE)		C425, 426 C427, 428	22321049	Polypropylene, 330mfd, 50V
Δ	71	A STATE OF S	Transformer, Power (TU, AY)		C427, 428	22362221	Ceramic, 220pF, 50V, K
	S401, 402	22195254	Push Switch, Fe-Cr/DOLBY NR		C430	22349221	Ceramic, 220pF, 50V, K
	S4O3	22148645	Relay Switch		C431, 432	22362470	Ceramic, 47mfd, 50V, K
	S404	221 48653 22195256	Relay Switch		C433, 434	22445100	Electrolytic, 10mfd, 16V
l	S901, 902	22195250	Key Board Switch		C435, 436	22371153	Mylar, 0.015mfd, 50V, J
	S9O3, 904 S9O5, 906				C437, 438	22371153	Mylar, 0.015mfd, 50V, J
	S9O ₃ , 900	22195199	Leaf Switch, Erase Prevention		C439, 440	22440285	Electrolytic, 0.33mfd, 50V
	S908	22195253	Slide Switch, TIMER		C441, 442	22371472	Mylar, 4700pF, 50V, J
İ	S9 Q 9, 910	22195255	Push Switch, MEMORY		C443, 444	22445100	Electrolytic, 10mfd, 16V
	0000,010	22100200	COUNTER/AUTO PLAY		C445, 446	22440283	Electrolytic, 0.1mfd, 50V
	S911	22195199	Leaf Switch, Chrome Censure		C447, 448	22445100	Electrolytic, 10mfd, 16V
	S912	22195199	Leaf Switch, Tape Detector		C449, 450	22445100	Electrolytic, 10mfd, 16V
Δ	S913		Push Switch, Power		C451, 452	22440283	Electrolytic, 0.1mfd, 50V
-	Z4O1, 402	22153075	Filter, Dolby		C453, 454	22440285	Electrolytic, 0.33mfd, 50V
	Z9O1	22132524	Unit, BIAS OSC		C455, 456	22440286	Electrolytic, 0.47mfd, 50V
	J401	22163726	Jack, PIN		C457, 458	22448339	Electrolytic, 3.3mfd, 50V
	J4O2	22163675	Jack, Microphone		C459, 460	22445100	Electrolytic, 10mfd, 16V
	J403		Jack, Headphone		C461, 462	22371333	Mylar, 0.033mfd, 50V, J
	J9 O 2	22167456	Jack, Remote Control		C463, 464	22445100	Electrolytic, 10mfd, 16V
L				- 1			

	Symbol No.	Part No.	Description		Symbol No.	Part No.	Description
	C465, 466	22448339	Electrolytic, 3.3mfd, 50V	Δ	C999	22340090	Ceramic, 4700pF, 250V, Z
	C467, 468	22480004	Electrolytic, 0.15mfd, 50V				
1	C469, 470	22440284	Electrolytic, 0.15mfd, 50V			RESI	STORS
١	C471, 472	22445220	Electrolytic, 22mfd, 16V		All resistors	s are ±5%, ¼V	V, carbon film unless otherwise
l	C473, 474	22349821	Ceramic, 820pF, 50V, K		noted. K =	±10%	
l	C475, 476	22321083	Ceramic, 150mfd, 50V, J				
l	C477	22445101	Electrolytic, 100mfd, 16V		R1, 2	22648185	Semi-fixed Resistor, 50k ohm
	C478	22445221	Electrolytic, 220mfd, 16V		R3, 4	22555103	10k ohm
	C479	22445101	Electrolytic, 100mfd, 16V		R5, 6	22555103	10k ohm
l	C480	22443331	Electrolytic, 330mfd, 10V		R7, 8	22555224	220k ohm
	C481	22445221	Electrolytic, 220mfd, 16V		R9, 10	22555103	10k ohm
ĺ	C482	22445100	Electrolytic, 10mfd, 16V		R11, 12	22555103	10k ohm
	C483	22445330	Electrolytic, 33mfd, 16V		R13, 14	22561102	Solid, 1k ohm, ¼W, K
	C484	22445221	Electrolytic, 220 mfd, 16V		R15,16	22545333	33k ohm
	C485	22445100	Electrolytic, 10mfd, 16V		R50	22658185	Semi-fixed Resistor, 50k ohm
	C486	22447479	Electrolytic, 4.7mfd, 35V		R51	22555183	18k ohm
	C487	22448339	Electrolytic, 3.3mfd, 50V		R52	22555103	10k ohm
	C488	22445101	Electrolytic, 100mfd, 16V		R53	22555102	1k ohm
	C489	22448109	Electrolytic, 1mfd, 50V		R54, 57	22555332	3.3k ohm
	C490	22445100	Electrolytic, 10mfd, 16V		R55, 56	22555473	47k ohm
	C493, 494	22349102	Ceramic, 1000pF, 50V, K		R58, 59	22561221	Solid, 220 ohm, ¼W, K
	C901	22372333	Mylar, 0.033mfd, 50V, K		60, 61		
	C902	22443101	Electrolytic, 100mfd, 10V		62, 63		
	C903	22448339	Electrolytic, 3.3mfd, 50V		64		
	C904	22448339	Electrolytic, 3.3mfd, 50V		R65, 66	22561331	Solid, 330 ohm, ¼W, K
	C905	22445330	Electrolytic, 33mfd, 16V		67		
	C906	22445100	Electrolytic, 10mfd, 16V		R68	22555154	150k ohm
	C907	22445330	Electrolytic, 33mfd, 16V		R401, 402	22555223	22k ohm
	C908	22443470	Electrolytic, 47mfd, 10V		R403, 404	22555471	470 ohm
	C909	22448109	Electrolytic, 1mfd, 50V		R405, 406	22555222	2.2k ohm
	C910	22445100	Electrolytic, 10mfd, 16V		R407, 408	22555104	100k ohm
	C911	22447100	Electrolytic, 10mfd, 35V		R409, 410	22555472	4.7k ohm
	C912	22447330	Electrolytic, 33mfd, 35V		R411, 412	22555154	150k ohm
	C913	22349103	Ceramic, 0.01mfd, 50V, K		R413, 414	22555391	390 ohm
	C914	22349102	Ceramic, 1000pF, 50V, K		R415, 416	22555562	560 ohm
	C915	22349102	Ceramic, 1000pF, 50V, K		R417, 418	22555562	560 ohm
	C916	22349102	Ceramic, 1000pF, 50V, K		R419, 420	22555273	27k ohm
	C917	22447101	Electrolytic, 100mfd, 35V		R421, 422	22545100	10 ohm
	C951	22445221	Electrolytic, 220mfd, 16V		R423, 424	22555104	100k ohm
	C952	22487471	Electrolytic, 470mfd, 35V		R425, 426	22555472	4.7k ohm
	C953	22487102	Electrolytic, 1000mfd, 35V		R427, 428	22555154	150k ohm
	C961	22445101	Electrolytic, 100mfd, 16V		R429, 430	22555391	390 ohm
	C962	22445330	Electrolytic, 33mfd, 16V		R431, 432	22555561	560 ohm
	C963	22487102	Electrolytic, 1000mfd, 35V		R433, 434	22555561	560 ohm
	C964	22487102	Electrolytic, 1000mfd, 35V		R435, 436	22555394	390k ohm
	C965	22445221	Electrolytic, 220mfd, 16V		R437, 438	22555822	8.2k ohm
	C966	22487471	Electrolytic, 470mfd, 35V		R439, 440	22555562	5.6k ohm
i	C967	22487102	Electrolytic, 1000mfd, 35V]	R441, 442	22555474	470k ohm
	C968	22443470	Electrolytic, 47mfd, 10V		R443, 444	22555184	180k ohm
	C969	22445101	Electrolytic, 100mfd, 16V		R445, 446	22555222	2.2k ohm
	C970, 971	22321048	Polypropylene, 270pF, 50V, J		R447, 448	22555473	47k ohm
	C972	22380099	Polyethylene Film, 2700pF,		R449, 450	22555470	470 ohm
ļ			200V, K	į	R451, 452	22555473	47k ohm

Symbol No.	Part No.	Descr	iption	Symbol No.	Part No.	Description
R453, 454	22555562	5.6k ohm		R534	22555102	1k ohm
R455, 456	22555104	100k ohm		R535	22555103	10k ohm
R457, 458	22555392	3.9k ohm		R536	22555122	1.2k ohm
R459, 460	22555473	47k ohm		R537	22555391	390 ohm
R461, 462	22555101	100 ohm		R538	22555103	10k ohm
R463, 464	22555103	10k ohm		R539	22555473	47k ohm
R465, 466	22555101	100 ohm		R540	22555122	1.2k ohm
R467, 468	22555103	10k ohm		R541, 542	22545102	1k ohm
R469, 470	22555123	12k ohm		R545, 546	22555104	100k ohm
R471, 472	22555274	270k ohm		VR401, 402	22658130	Semi-fixed Resistor, 50k ohm
R473, 474	22555274	270k ohm		VR403, 404	22624012	Variable Resistor, 50k ohm
R475, 476	22555472	4.7k ohm		VR405, 406		Semi-fixed Resistor, 10k ohm
R477, 478	22555103	10k ohm		VR407, 408		Semi-fixed Resistor, 50k ohm
R479, 480	22555392	3.9k ohm		VR409	22625013	Variable Resistor, 10k ohm
R481, 482	22555391	390 ohm		VR961, 962	22658380	Semi-fixed Resistor, 100k ohm
R483, 484	22555472	4.7k ohm		R901	22555100	10 ohm
R485	22555473	47k ohm		R902	22555473	47k ohm
R486	22545473	47k ohm		R903	22555473	47k ohm
R487, 488	22555560	56 ohm		R904	22555103	10k ohm
R489, 490	22555471	470 ohm		R905	22555103	10k ohm
R491	22555473	47k ohm		R907	22545470	47 ohm
R492	22545473	47k ohm		R908	22545153	15k ohm
R493, 494	22555222	2.2k ohm		R909	22545472	4.7k ohm
R495, 496	22555471	470 ohm		R910	22545472	4.7k ohm
R497, 498	22555473	47k ohm		R911	22555104	100k ohm
R499, 500	22555121	120 ohm		R912	22545472	4.7k ohm
R501, 502	22555472	4.7k ohm		R913	22555102	1k ohm
R503, 504	22555102	1k ohm		R914	22545473	47k ohm
R505, 506	22555223	22k ohm		R915	22545103	10k ohm
R507	22555681	680 ohm		R916	22555473	47k ohm
R508	22555681	680 ohm		R917	22545102	1k ohm
R509	22555102	1k ohm		R918	22545102	10k ohm
R511	22545562	5.6k ohm		R919	22555472	4.7k ohm
R512	22555562	5.6k ohm		R920	22555472	4.7k ohm
R514	22555473	47k ohm		R921	22555472	470 ohm
R515	22555103	10k ohm		R922	22555103	10k ohm
R516	22555473	47k ohm		R923	22570302	Metal Oxide Film, 39 ohm,2W,J
R517	22555472	4.7k ohm		R924	22555471	470 ohm
R518	22555472	4.7k ohm		R925	22555103	10k ohm
R519	22555472	4.7k ohm		R926	22570299	
R520	22555473	47k ohm		R927	22545471	Metal Oxide Film, 22 ohm,2W,J
R521	22555473	47k ohm		R928	22555103	10k ohm
R522	22555153	15k ohm		R929	22555103	1k ohm
R523	22555273	27k ohm		R930	22555102	1k ohm
R524	22555102	1k ohm		R931	22545471	470 ohm
R525	22555103	10k ohm		R932	22555103	10k ohm
R526	22555153	15k ohm		R933	22555471	470 ohm
R527	22555473	47k ohm		R934	22545332	4.7k ohm
R528	22555473	47k ohm	1	R935	22555102	1k ohm
R529	22555102	1k ohm		R936	22563471	Solid, 470 ohm, 1/2W, K
R530	22545473	47k ohm	1	R937	22563479	Solid, 4.7 ohm, ½W, K
R531	22555223	22k ohm	ļ	R938	22555102	1k ohm
R533	22555102	1k ohm		I 1	22545471	470 ohm
-				1	22555103	10k ohm

1	Symbol No.	Part No.	Description
	R941	22545102	1k ohm
	R942	22545103	10k ohm
	R943	22555473	47k ohm
	R944	22545471	470 ohm
	R945	22658509	Semi-fixed Resistor, 470k ohm
	R946	22658510	Semi-fixed Resistor, 1k ohm
	R947	22658508	Semi-fixed Resistor, 100 ohm
	R948	22545472	4.7k ohm
	R951	22545222	2.2k ohm
	R952	22545222	2.2k ohm
	R953	22545222	2.2k ohm
Δ	R954	22563102	Solid, 1k ohm, ½W, K
	R961	22555102	1k ohm
	R962	22555102	1k ohm
	R963	22555102	1k ohm
∇	R964	22570270	Metal Oxide Film,470 ohm,1W,J
	R965	22563222	Solid, 2.2k ohm, ½W, K
	R966	22545154	150k ohm
	R967	22555472	4.7k ohm
	R968	22555472	4.7k ohm
	R969	22555103	10k ohm
	R970	22555103	10k ohm
	R971	22555473	47k ohm
	R972	22563391	Solid, 390 ohm, ½W, K
Δ	R973	22570264	Metal Oxide Film,150 ohm,1W,J
	R974	22555332	3.3k ohm
	R975	22555102	1k ohm
	R980	22555103	10k ohm
		ACC	ESSODIES
	ACCESSORIES		
		22902287	Owners Manual
		22170398	Cord, Connection
		22990374	Cleaner, Head
		25838125	Dust Cover
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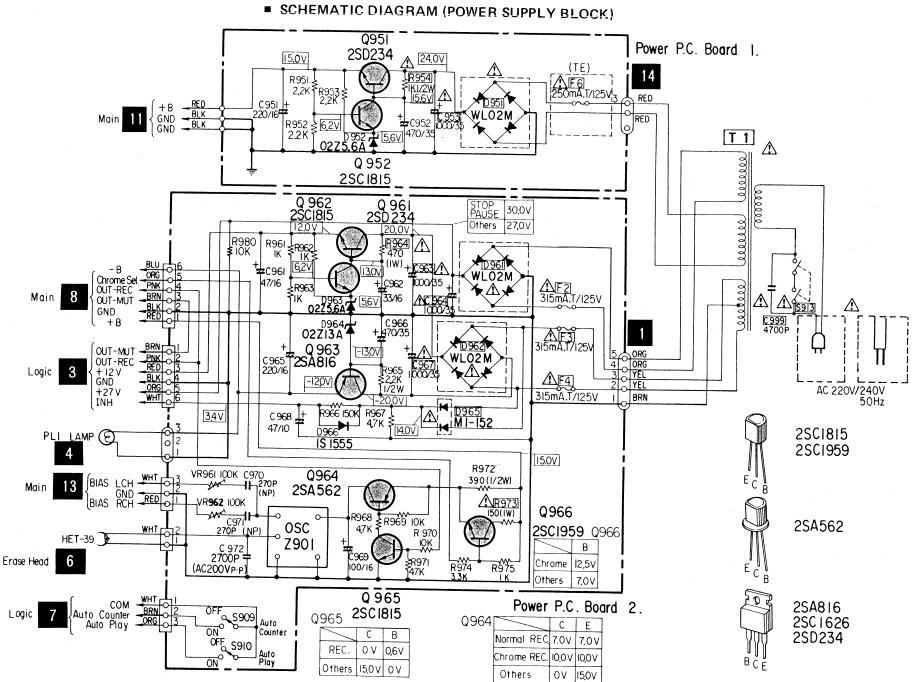
■ SCHEMATIC DIAGRAM (METER DRIVE & LED BLOCK)



B

replaced only with types identical to those in the original

circuit or specified in the parts list.



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